

CAMINO REAL REGIONAL MOBILITY AUTHORITY BOARD RESOLUTION

WHEREAS, the Camino Real Regional Mobility Authority (CRRMA) has partnered with the Texas Department of Transportation (TxDOT) for the development of the State Loop 375 Frontage Road Ramps Project and the State Loop 375 Main Lanes Widening Project, whereby the CRRMA agreed to provide the environmental and preliminary engineering services for such projects;

WHEREAS, the CRRMA entered into Work Authorization No. 3 with Dannenbaum Engineering Company – El Paso, LLC for the provision of schematic, environmental document and Plans, Specifications and Estimates for the State Loop 375 Main Lanes Widening Project (Project); and

WHEREAS, the CRRMA now desires Dannenbaum Engineering to provide additional design services for the Project, as such additional services were requested by TxDOT, and the CRRMA and Dannenbaum Engineering therefore desire to enter into an amendment to Work Authorization No. 3.

NOW, THEREFORE, BE IT RESOLVED BY THE CAMINO REAL REGIONAL MOBILITY AUTHORITY:

THAT the Executive Director be authorized to execute **Amendment No. 1 to Work Authorization No. 3** with Dannenbaum Engineering Company – El Paso, LLC, including any additional documents or materials as may be required, in relation to additional scope requested in the development of plans, specifications and estimates for the State Loop 375 Main Lanes Widening Project.

PASSED AND APPROVED THIS 8TH DAY OF MAY 2019.

**CAMINO REAL REGIONAL
MOBILITY AUTHORITY**

ATTEST:

Joyce A. Wilson, Chair

Joe R. Fernandez, Board Secretary

APPROVED AS TO CONTENT:

Raymond L. Telles, Executive Director

AMENDMENT NO. 1

**WORK AUTHORIZATION NO. 3
CONTRACT FOR ENGINEERING SERVICES**

THIS AMENDMENT NO. 1 is made pursuant to the terms and conditions of Article 5 of the Contract for Engineering Services hereinafter identified as the “Contract,” entered into by and between the CAMINO REAL REGIONAL MOBILITY AUTHORITY (the “CRRMA”) and DANNENBAUM ENGINEERING COMPANY – EL PASO, LLC (the “Engineer”).

This Amendment No. 1 seeks to amend Work Authorization No. 3 dated November 15, 2017, which was executed by and between the parties pursuant to the Contract for the development of the project known as State Loop 375 Main Lanes Widening Project (the “Project”).

The terms and conditions of Work Authorization No. 3 are hereby supplemented to include the additional services identified in Attachment Exhibit B-1 in exchange for the additional not to exceed compensation enumerated within Attachment D-1, both of which are attached hereto and incorporated herein for all purposes.

This Amendment No. 1 shall become effective on the date of final execution of the Parties hereto. All other terms and conditions of Work Authorization No. 3 not hereby amended are to remain in full force and effect.

IN WITNESS WHEREOF, this Amendment No. 1 is executed in duplicate counterparts and hereby accepted and acknowledged below.

**CAMINO REAL
REGIONAL MOBILITY AUTHORITY**

By: _____
Raymond L. Telles
Executive Director

Date: _____

**DANNENBAUM ENGINEERING COMPANY
- EL PASO, LLC**

By: _____

Name: _____

Date: _____

Exhibit B-1

SERVICES TO BE PROVIDED BY THE ENGINEER

I. PROJECT SUMMARY

Additional Professional Services have been requested by the CRRMA to provide Construction Phase Services for the State Loop 375 Americas Project. These additional services will include:

II. SERVICES TO BE PROVIDED BY THE ENGINEER

The Scope of Services to be provided by the Engineer includes the following key elements:

- Project Management
- Construction Phase Services

A. Project Management and Administration

The project management and administration tasks shall include:

1. Project Management/Work Plan
 - 1.1 Develop/Implement a Project Management Work Plan
2. Progress Reporting
 - 2.1 Prepare and submit to the CRRMA monthly progress reports of activities completed during reporting period.
 - 2.1.2 Initiated and Ongoing Activities
 - 2.1.4 Problems Encountered/Problem Remedies
 - 2.1.6 Updated Project Schedule
 - 2.2 Prepare and Submit Invoices. The report shall be submitted as an attachment to the invoice submittal.
 - 2.2.6 Reason for deviations from baseline

Deliverables:

- Project Management Plan
- Summaries of all Meetings
- Administrative Record
- Project Schedule and Monthly Updates
- Subconsultant Contracts, WA's, Progress Reports and Invoices

E. Plans, Specifications and Estimates (PS&E)

2. Design Criteria

- 2.1 Extend limits from Bob Hope to Vista del Sol for removal and signing and pavement markings (15 additional sheets)
- 2.2 Extend limits north 1400' for P&P to replace asphalt to concrete (2 additional sheets)
 - 2.2.1 Widening of N. Loop Bridge
 - 2.2.2 Lane and shoulder reduction
 - 2.2.3 Shoulder reduction with additional for SB lanes 2' widening to the inside.
 - 2.2.4 Restriping of segment to allow for 3 through lanes.
- 2.4 Modify topo profile to include 058 design as existing in our project. Work back to include portions of 058 not being built. As proposed by others.
- 2.5 Look at options to take bridge bent outside RR ROW.
- 2.6 Add signs and potentially OSB structure for Pellicano exit
- 2.8 Use TxDOT as-built plans to create existing topo for segment to be restriped from Bob Hope to Pellicano.
- 2.9 Create new existing TIN to include 058 proposed design as part of existing TIN.
- 2.10 Coordinate Retaining Wall with Bridge widening to the outside for new exitramp.

Deliverables:

- 95 & 100% Submittals
- QC redlines at (95 and 100%) design reviews
- Preliminary (95 and 100%) Design Review
- Plans estimate
- Specifications list, general notes, special provisions, specifications, special specifications
- Final signed and sealed construction plans
- Bid document package

3. Bridge and Retaining Wall Design

3.1 The Engineer shall develop bridge layout sheets and structural details for each bridge class culvert of existing utilities.

SBML at FM76 (296 ft) – Widen SB of State Loop 375 at FM 76 (North Loop Dr.).

Bridge Layout

Estimated quantities and bearing seat elevations

Foundation Layout

Foundation Details – 1 type(s)

4 – Abuts 1 Type(s) – 2 Total

4 – Bents 1 Type(s) – 2 Total

Conc Slab Plan & Deflection – 1 Unit(s)

Conc Framing Plan & Bent Report – 1 Unit(s)

Conc Typical Sections – 1 Unit(s)

Prestressed Concrete Beams – UBND

2 – Architectural Treatment

95% QA/QC Submittal Review

100% QA/QC Submittal Review

6. Roadway Design

6.3 Detail design elements

6.3.1.2 Summary

6.3.1.3 Proposed Layouts

6.3.1.4 Voltage Calculations

6.3.1.5 Circuit Diagrams

6.3.1.7 Electrical Services

6.3.1.8 Cost Estimate

6.3.1.9 Coordination and Progress Meetings

Deliverables:

- 95 and 100% Submittals
- QC redlines at (95 and 100%) design reviews
- Final signed and sealed construction plans
- Bid document package

9. Traffic Control

9.1 TCP Coordination, Invoicing, Filing, and Project Management

9.1.1 Attend Safety Review Meetings

9.1.2 Coordinate with LP 375 Frontage Rd TCP

9.2.1 Line Diagrams

9.2.2 Detour Plans

9.2.3 Traffic Control Plans

9.2.4 General Note Guidelines for Contractor

9.4.3 95% Submittal

9.4.4 100% Submittal

9.4.5 QA/QC

9.4.6 Plans Estimate related to TCP

9.4.6 Specification List

Exhibit D-1
FEE SCHEDULE
Work Authorization No. 3

Company	Fee
Dannenbaum Engineering Co. - El Paso, LLC.	\$ 265,890.19
AMEC Foster Wheeler	\$ 5,829.32
Villaverde, Inc.	\$ 118,473.20
GRV integrated Engineering Solutions, LLC	\$ 59,890.53
TOTAL =	\$ 450,083.24

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**Dannenbaum Engineering Company - El Paso, LLC
PROJECT: SL 375 Widen Lanes**

Task	Dannenbaum Engineering Company - El Paso, LLC	AMEC Foster Wheeler, S2	TEDSI Infrastructure Group, Inc., S3	Villaverde, Inc., S5	GRV integrated Engineering Solutions, LLC, S6
A. Project Management	\$11,811.62				
B. Surveying					
C. Geotechnical Investigations		\$5,829.32			
D. Stakeholder Coordination					
E. Plans, Specifications and Estimates (PS&E)(Roadway)	\$170,178.50			\$118,473.20	\$59,010.53
F. Plans, Specifications and Estimates (PS&E)(Bridges)	\$83,900.07				
G. Utility Coordination					
Sub Totals	\$265,890.19	\$5,829.32	\$0.00	\$118,473.20	\$59,010.53
Direct Expenses	\$0.00	\$0.00	\$0.00	\$0.00	\$880.00
Totals	\$265,890.19	\$5,829.32	\$0.00	\$118,473.20	\$59,890.53
Grand Total	\$450,083.24				
Participation Percentage	59.08%	1.30%	0.00%	26.32%	13.31%
Total DBE Percentage:	39.63%				

Dannenbaum Engineering Company - El Paso, LLC																
PROJECT: SL 375 Widen Lanes																
Task Description	PRINCIPAL	SENIOR PROJECT MANAGER	DEPUTY PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	EIT	SENIOR DESIGNER	SENIOR CADD OPERATOR	ADMIN ASSISTANT 3	PUBLIC OUTREACH MANAGER	REGISTERED PROFESSIONAL LAND SURVEYOR	SURVEY TECHNICIAN	2-MAN SURVEY CREW (PORTAL TO PORTAL)	TOTAL LABOR HOURS	TOTAL LABOR COST
A. Project Management															75	\$ 11,811.62
1. Project Management/Work Plan															10	\$ 2,012.76
1.1 Develop/Implement a Project Management/Work Plan		4		2						4					10	\$ 2,012.76
2. Progress Reporting															34	\$ 5,814.18
2.1 Prepare and Submit Monthly Progress Reports for CRRMA					2					2					4	\$ 560.08
2.1.2 Initiated and Ongoing Activities					2										2	\$ 405.16
2.1.4 Problems Encountered/Problem Remedies		4		2				2	4						12	\$ 2,370.26
2.1.6 Updated Project Schedule					4					4					8	\$ 1,120.16
2.2 Prepare and Submit Invoices					2										2	\$ 440.92
2.2.6 Reasons for Deviations from Baseline					2				4						6	\$ 917.60
Deliverables															31	\$ 3,984.68
* Project Management Plan		2		2						2					6	\$ 1,226.84
* Administrative Record		2								4					6	\$ 940.84
* Project Schedule and Monthly Updates								6							6	\$ 571.98
* Subconsultant Contracts, WA's, Progress Reports and Invoices			1							12					13	\$ 1,245.02
HOURS SUB-TOTALS	0	13	0	10	8	0	8	8	0	28	0	0	0	0	75	
CONTRACT RATE PER HOUR	\$335.88	\$315.50	\$256.21	\$220.46	\$202.58	\$214.50	\$95.33	\$119.17	\$90.54	\$77.46	\$92.35	\$137.27	\$71.56	\$137.27		
TOTAL LABOR COSTS	\$0.00	\$4,101.50	\$0.00	\$2,204.60	\$1,620.64	\$0.00	\$762.64	\$953.36	\$0.00	\$2,168.88	\$0.00	\$0.00	\$0.00	\$0.00	\$11,811.62	
% DISTRIBUTION OF STAFF HOURS	0.00%	17.33%	0.00%	13.33%	10.67%	0.00%	10.67%	10.67%	0.00%	37.33%	0.00%	0.00%	0.00%	0.00%		
E. Plans, Specifications and Estimates (PS&E)															1001	\$ 170,178.50
2. Design Criteria															833	\$ 134,770.28
2.1. Extend limits from Bob Hope to Vista del Sol for removal and signing and pavement markings (15 additional sheets)		20	20			45			150						235	\$ 34,667.70
2.2 Extend limits north 1400' for P&P to replace asphalt to concrete (2 additional sheets)			10			20			20						50	\$ 8,662.90
2.2.1. Widening of N. Loop Bridge			15			40	20		20						95	\$ 16,140.55
2.2.2. Lane and shoulder reduction			2			20									22	\$ 4,802.42
2.2.3. Shoulder reduction with additional for SB lanes 2' widening to the inside.			2			10									12	\$ 2,657.42
2.2.4. Restriping of segment to allow for 3 through lanes.			5			15									20	\$ 4,498.55
2.4. Modify topo file to include 058 design as existing in our project. work back to include portions of 058 not being built. As proposed by others.			40			20			120						180	\$ 25,403.20
2.5. Look at options to take bridge bents outside of RR ROW.		10	8	16											34	\$ 8,732.04
2.6. Add signs and potentially OSB structure for Pelicano exit						20			40						60	\$ 7,911.60
2.8. Use TxDOT as-built plans to create existing topo for segment to be restriped from Bob Hope to Pelicano						10			40						50	\$ 5,766.60
2.9. Create new existing TIN to include 058 proposed design as part of the existing TIN.				10		40									50	\$ 10,784.60
2.10 Coordinate Retaining Wall with Bridge widening to the outside for new exit ramp.						20			5						25	\$ 4,742.70
Deliverables															168	\$ 35,408.22
* 95 & 100% Submittals		10	10												20	\$ 5,717.10
* QC redlines at (95 and 100 percent) design reviews				24		16			16						56	\$ 10,171.68
* Preliminary (95 and 100 Percent) Design Review				16		8									24	\$ 5,243.36
* Plans estimate				8	24										32	\$ 6,625.60
* Specification list, general notes, special provisions, specifications, special specifications				12											12	\$ 2,645.52
* Final signed and sealed construction plans					16										16	\$ 3,241.28
* Bid document package				8											8	\$ 1,763.68
HOURS SUB-TOTALS	0	40	112	94	40	284	20	0	411	0	0	0	0	0	1001	
CONTRACT RATE PER HOUR	\$335.88	\$315.50	\$256.21	\$220.46	\$202.58	\$214.50	\$95.33	\$119.17	\$90.54	\$77.46	\$92.35	\$137.27	\$71.56	\$137.27		
TOTAL LABOR COSTS	\$0.00	\$12,620.00	\$28,695.52	\$20,723.24	\$8,103.20	\$60,918.00	\$1,906.60	\$0.00	\$37,211.94	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$170,178.50	
% DISTRIBUTION OF STAFF HOURS	0.00%	4.00%	11.19%	9.39%	4.00%	28.37%	2.00%	0.00%	41.06%	0.00%	0.00%	0.00%	0.00%	0.00%		
TOTAL PROJECT HOURS	0	53	112	104	48	284	28	8	411	28	0	0	0	0	1076	
PROJECT TOTALS	\$0.00	\$16,721.50	\$28,695.52	\$22,927.84	\$9,723.84	\$60,918.00	\$2,669.24	\$953.36	\$37,211.94	\$2,168.88	\$0.00	\$0.00	\$0.00	\$0.00	\$181,990.12	
TOTAL PROJECT % DISTRIBUTION OF STAFF HOURS	0.00%	4.93%	10.41%	9.67%	4.46%	26.39%	2.60%	0.74%	38.20%	2.60%	0.00%	0.00%	0.00%	0.00%	100.00%	

**Dannenbaum Engineering Company - El Paso, LLC
PROJECT: SL 375 Widen Lanes - BRIDGES**

Task Description	PRINCIPAL	SENIOR PROJECT MANAGER	DEPUTY PROJECT MANAGER	SENIOR ENGINEER	SENIOR BRIDGE ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	EIT	SENIOR DESIGNER	SENIOR CADD OPERATOR	SENIOR ENGINEER	ADMIN ASSISTANT 3	PUBLIC OUTREACH MANAGER	TOTAL LABOR HOURS	TOTAL LABOR COST
E. Plans, Specifications and Estimates (PS&E)														0	\$ 83,900.07
3. Bridge and Retaining Wall Design														0	\$ 83,900.07
3.1. The Engineer shall develop bridge layout sheets and structural details for each bridge and bridge class culvert.of existing utilities															
SBML at FM76 (296 ft) - Widen SB of State Loop 375 at FM 76 (North Loop Dr.).															
Bridge Layout		1		10	7				12					30	\$ 5,499.87
Estimated quantities and bearing seat elevations		1		11	2		23			15				52	\$ 9,474.94
Foundation Layout				6	4				12	8				30	\$ 4,362.68
Foundation Details- 1 type(s)				10	5		8		7	10				40	\$ 6,767.14
4 - Abuts- 1 Type(s) - 2 Total				10	6		28		14	22				80	\$ 13,199.20
4 - Bents- 1 Type(s) - 2 Total				12	4		20		12	12				60	\$ 10,337.60
Conc Slab Plan & Deflection- 1 Unit(s)				6	2		6		8	8				30	\$ 4,730.22
Conc Framing Plan & Bent Report- 1 Unit(s)				6	2		6		8	8				30	\$ 4,730.22
Conc Typical Sections - 1 Unit(s)				12	4		8		8	8				40	\$ 6,924.76
Prestressed Concrete Beams - UBND				5	2		14		4	11				36	\$ 6,020.70
2 - Architectural Treatment				6	10				10	24				50	\$ 6,901.32
90 % QA/QC Submittal Review				10								4		14	\$ 2,514.44
100 % QA/QC Submittal Review				10								3		13	\$ 2,436.98
HOURS SUB-TOTALS	0	2	0	114	48	0	113	0	95	126	0	7	0	505	
CONTRACT RATE PER HOUR	\$335.88	\$315.50	\$256.21	\$220.46	\$221.39	\$202.58	\$214.50	\$95.33	\$119.17	\$90.54	\$220.46	\$77.46	\$92.35		
TOTAL LABOR COSTS	\$0.00	\$631.00	\$0.00	\$25,132.44	\$10,626.72	\$0.00	\$24,238.50	\$0.00	\$11,321.15	\$11,408.04	\$0.00	\$542.22	\$0.00	\$83,900.07	
% DISTRIBUTION OF STAFF HOURS	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
TOTAL PROJECT HOURS	0	2	0	114	48	0	113	0	95	126	0	7	0	505	
PROJECT TOTALS	\$ -	\$ 631.00	\$ -	\$ 25,132.44	\$ 10,626.72	\$ -	\$ 24,238.50	\$ -	\$ 11,321.15	\$ 11,408.04	\$ -	\$ 542.22	\$ -	\$ 83,900.07	
TOTAL PROJECT % DISTRIBUTION OF STAFF HOURS	0.00%	0.40%	0.00%	22.57%	9.50%	0.00%	22.38%	0.00%	18.81%	24.95%	0.00%	1.39%	0.00%	100.00%	

Dannenbaum Engineering Company - El Paso, LLC					
PRIME PROVIDER - OTHER DIRECT EXPENSES					
Other Direct Expenses	UNITS		RATE		
Lodging/Hotel (Taxes/fees not included)	0	night	95.00		\$0.00
Meals (overnight stay required)	0	day	55.00		\$0.00
Rental Car (Tax/fees not included)	0	day	90.00		\$0.00
Mileage	0	mile	0.575		\$0.00
SUV or ATV Rental	0	day	90.00		\$0.00
Air Travel	0	each	650.00		\$0.00
Parking	0	day	15.00		\$0.00
Taxi/Cab fare	0	each	25.00		\$0.00
Standard Postage	0	letter	0.71		\$0.00
Overnight express-letter size	0	each	35.00		\$0.00
Overnight express-oversized box	0	each	45.00		\$0.00
Courier Services	0	44.99	45.00		\$0.00
8½"X11" B/W Paper Copies	0	each	0.10		\$0.00
11"X17" B/W Paper Copies	0	each	0.20		\$0.00
8½"X11" Color Paper Copies	0	each	0.70		\$0.00
11"X17" Color Paper Copies	0	each	1.25		\$0.00
CADD Plotting	0	linear foot	0.75		\$0.00
Digital Ortho Plotting	0	linear foot	1.25		\$0.00
Law Enforcement/Uniform Officer	0	hour/officer	100.00		\$0.00
Notebooks	0	each	10.00		\$0.00
Hazardous Materials Database Search	0	per search	75.00		\$0.00
Backhoe Rental	0	day	500.00		\$0.00
Report Binding	0	each	15.00		\$0.00
Presentation Boards 30"X40" Color Mounted	0	each	50.00		\$0.00
Color Graphics on Foam Board	0	sq. ft.	5.00		\$0.00
Custodian for Public Involvement	0	event	500.00		\$0.00
Audio-Visual Equipment Rental (technician included)	0	event	1,000.00		\$0.00
Env. Field Supplies (lathes, stakes, flagging, spray paint, etc.)	0	day	50.00		\$0.00
Translator (English to Spanish)	0	hour	150.00		\$0.00
Court Reporter	0	hour	100.00		\$0.00
Newspaper Advertisement	0	each	3,000.00		\$0.00
Traffic Control	0	day	1,000.00		\$0.00
OP Permit Fee	0	each	1,000.00		\$0.00
GPS Receiver	0	hour	17.88		\$0.00
					\$0.00
Other Direct Expense Total					\$0.00

Dannenbaum Engineering Company - El Paso, LLC		
PROJECT: SL 375 Widen Lanes		
Dannenbaum Engineering Company - El Paso, LLC LUMP SUM, UNIT COST AND/OR SPECIFIED RATE PAYMENT BASIS		
Lump Sum, Unit Cost and/or Specified Rate Labor/Staff Classification	Negotiated Hourly Base Rate	Contract Rate
Principal	\$ 115.00	\$ 335.88
Senior Project Manager	\$ 108.02	\$ 315.50
Deputy Project Manager	\$ 87.72	\$ 256.21
Senior Bridge Engineer	\$ 75.80	\$ 221.39
Senior Engineer	\$ 75.48	\$ 220.46
Project Engineer	\$ 69.36	\$ 202.58
Design Engineer	\$ 73.44	\$ 214.50
EIT	\$ 32.64	\$ 95.33
EIT 2	\$ 36.72	\$ 107.25
EIT 3	\$ 40.80	\$ 119.17
Senior Designer	\$ 40.80	\$ 119.17
Senior Engineering Technician	\$ 36.00	\$ 105.15
Engineering Technician	\$ 32.00	\$ 93.46
Senior CADD Operator	\$ 31.00	\$ 90.54
CADD Operator	\$ 24.50	\$ 71.56
Scheduler	\$ 51.00	\$ 148.96
GIS Specialist	\$ 54.06	\$ 157.89
Construction Manager	\$ 73.44	\$ 214.50
Construction Engineer	\$ 65.28	\$ 190.67
Admin / Clerical (Eng)	\$ 19.38	\$ 56.60
Admin Assistant 2	\$ 22.44	\$ 65.54
Admin Assistant 3	\$ 26.52	\$ 77.46
Public Outreach Manager	\$ 31.62	\$ 92.35
Survey Project Manager	\$ 41.90	\$ 122.38
Registered Professional Land Surveyor	\$ 47.00	\$ 137.27
Survey Technician	\$ 24.50	\$ 71.56
Survey Technician - GPS	\$ 32.00	\$ 93.46
2-man Survey Crew (Portal to Portal)	\$ 47.00	\$ 137.27
3-man Survey Crew (Portal to Portal)	\$ 62.00	\$ 181.09
4-man Survey Crew (Portal to Portal)	\$ 67.00	\$ 195.69
Flagger	\$ 16.00	\$ 46.73
Admin / Clerical (Surv)	\$ 22.44	\$ 65.54
Audited Overhead Rate:	160.78%	
Negotiated Profit Rate:	12.00%	
Contract Rates include labor, overhead, and profit. All rates are negotiated rates and are not subject to change or adjustment. Physical percent complete to be billed. Documentation of hours work not required.		
Any staffing or other direct expense classification included in the contract, but not in a work authorization, is not eligible for payment under that work authorization.		

AMEC Foster Wheeler, S2 PROJECT: SL 375 Widen Lanes								
Task Description	SENIOR PROJECT MANAGER	SENIOR ENGINEER	Field Engineer/Geologist	ENGINEERING TECHNICIAN	CADD OPERATOR	ADMIN / CLERICAL (ENG)	TOTAL LABOR HOURS	TOTAL LABOR COST
1. Project Management/Work Plan							0	\$ -
1.1 Develop a Project Management/Work Plan							0	\$ -
2. Progress Reporting							0	\$ -
C. Geotechnical Investigations							39	\$ 5,829.32
1. Surface Exploration and Testing							0	\$ -
1.1 Perform geotechnical engineering investigation								
1.1.1. Determine location of bridge borings and plan field investigations. Coordinate soil borings with project surveyor.							0	\$ -
1.1.2. Conduct subsurface explorations and provide information needed for the design of a cost effective pavement structural section.							0	\$ -
• Contact utility one call services to mark all existing utilities in the project corridor.							0	\$ -
1.1.3. Implement traffic control							0	\$ -
1.1.4. Advance one exploratory boring at intervals of about 1500 LF of roadway alignment to a minimum depth of 10 feet.							0	\$ -
1.1.5. Perform split spoon standard penetration tests (SPT)							0	\$ -
1.1.6. Develop a laboratory soils testing program and utilize the index test							0	\$ -
1.1.7. Derive soil strength utilizing the split spoon SPT blow counts or unconfined compressive strength tests							0	\$ -
1.1.8. Perform California Bearing Test (CBR)							0	\$ -
2. Geotechnical Design							39	\$ 5,829.32
2.1 Geotechnical engineering analysis shall include drill shaft capacity analysis and slope stability analysis.							0	\$ -
2.2 Perform an engineering evaluation in general accordance with the AASHTO pavement design guide to determine pavement base and pavement thickness for both a flexible and a rigid pavement section.							0	\$ -
2.3. Provide recommendations for underground storm water pipe bedding and backfill.							0	\$ -
2.4. Provide recommendations for illumination pole foundations, traffic signal mast arm foundations, and retaining wall structures.							0	\$ -
2.5 Summarize results of the geotechnical engineering investigations in a written report.							0	\$ -
2.6 Stability analysis of three conceptual designs at North Loop and 375.	6	25			8		39	\$ 5,829.32
Deliverables							0	\$ -
• Provide three (3) PE sealed and signed copies of report.							0	\$ -
• Boring logs incorporated into the design set.							0	\$ -
DIRECT EXPENSES							0	\$ -
HOURS SUB-TOTALS	6	25	0	0	8	0	39	
CONTRACT RATE PER HOUR	\$219.39	\$161.20	\$81.33	\$58.07	\$60.36	\$49.65		
TOTAL LABOR COSTS	\$1,316.35	\$4,030.08	\$0.00	\$0.00	\$482.89	\$0.00	\$5,829.32	
% DISTRIBUTION OF STAFF HOURS	15.38%	64.10%	0.00%	0.00%	20.51%	0.00%		
TOTAL PROJECT HOURS	6	25	0	0	8	0	39	

SUBCONSULTANT: AMEC Foster Wheeler, S2					
PROJECT: SL 375 Widen Lanes					
OTHER DIRECT EXPENSES					
Other Direct Expenses	UNITS		RATE		
Lodging/Hotel (Taxes/fees not included)		night	0.00		\$0.00
Meals (overnight stay required)		day	0.00		\$0.00
Rental Car (Tax/fees not included)		day	0.00		\$0.00
Mileage	0	mile	0.56		\$0.00
10 foot boring	0	each	240.00		\$0.00
30 foot boring	0	each	420.00		\$0.00
65 foot boring	0	each	1,750.00		\$0.00
Drill rig remob	0	each	500.00		\$0.00
Sieve	0	each	60.00		\$0.00
Atterberg Limits	0	each	60.00		\$0.00
Moisture content	0	each	10.00		\$0.00
Proctor	0	9.99	270.00		\$0.00
CBR	0	each	300.00		\$0.00
Traffic Control Devices Rental	0	each	250.00		\$0.00
Traffic Control- Mobile Truck	0	each	1,500.00		\$0.00
Coring Subcontractor	0	each	150.00		\$0.00
Direct Shear	0	each	150.00		\$0.00
Digital Ortho Plotting		linear foot	0.00		\$0.00
Law Enforcement/Uniform Officer		hour/officer	0.00		
Notebooks		each	0.00		\$0.00
Hazardous Materials Database Search		per search	0.00		\$0.00
Backhoe Rental		day	0.00		\$0.00
Boards for Public Meeting		each	0.00		\$0.00
Env. Field Supplies (lathes, stakes, flagging, spray paint, etc.)		day	0.00		\$0.00
Interpreter		hour	0.00		\$0.00
Court Reporter		hour	0.00		\$0.00
Newspaper Advertisement		each	0.00		\$0.00
Other Direct Expense Total					\$0.00

SUBCONSULTANT: AMEC Foster Wheeler, S2		
PRIME PROVIDER NAME: Dannenbaum Engineering Company-El Paso, LLC.		
PROJECT: SL 375 Widen Lanes		
LUMP SUM, UNIT COST AND/OR SPECIFIED RATE PAYMENT BASIS		
Lump Sum, Unit Cost and/or Specified Rate Labor/Staff Classification	Negotiated Hourly Base Rate	Contract Rate
Senior Project Manager	\$ 72.73	\$ 219.39
Senior Bridge Engineer	\$ -	\$ -
Senior Engineer	\$ 53.44	\$ 161.20
Project Engineer	\$ -	\$ -
Design Engineer	\$ -	\$ -
Field Engineer/Geologist	\$ 26.96	\$ 81.33
Senior Engineering Technician	\$ -	\$ -
Engineering Technician	\$ 19.25	\$ 58.07
Senior CADD Operator	\$ -	\$ -
CADD Operator	\$ 20.01	\$ 60.36
Admin / Clerical (Eng)	\$ 16.46	\$ 49.65
Survey Project Manager	\$ -	\$ -
Registered Professional Land Surveyor	\$ -	\$ -
Survey Technician	\$ -	\$ -
Survey Technician - GPS	\$ -	\$ -
2-man Survey Crew (Portal to Portal)	\$ -	\$ -
3-man Survey Crew (Portal to Portal)	\$ -	\$ -
4-man Survey Crew (Portal to Portal)	\$ -	\$ -
Flagger	\$ -	\$ -
Admin / Clerical (Surv)	\$ -	\$ -
Audited Overhead Rate:	174.23%	
Negotiated Profit Rate:	10.00%	
Contract Rates include labor, overhead, and profit. All rates are negotiated rates and are not subject to change or adjustment.		
Physical percent complete to be billed. Documentation of hours work not required.		
Any staffing or other direct expense classification included in the contract, but not in a work authorization, is not eligible for payment under that work authorization.		

Villaverde, Inc. S5 PROJECT: SL 375 Widen Lanes								
Task Description	SENIOR PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	EIT	CADD OPERATOR	ADMIN / CLERICAL (ENG)	TOTAL LABOR HOURS	TOTAL LABOR COST
A. Project Management/Work Plan							0	\$ -
1.1 Develop a Project Management/Work Plan							0	\$ -
2. Progress Reporting							0	\$ -
E. Plans, Specifications and Estimates (PS&E)							781	\$ 118,473.20
6. Roadway Design							866	\$ 76,084.30
6.3 Detail Design Elements							0	\$ -
6.3.1.2 Summary			15	24	33	6	78	\$ 6,088.49
6.3.1.3 Proposed Layouts		24	62	86	154		326	\$ 26,248.06
6.3.1.4 Voltage Calculations			24	48			72	\$ 8,036.56
6.3.1.5 Circuit Diagrams			42	48			90	\$ 10,207.11
6.3.1.7 Electrical Services			32	38	54		124	\$ 10,231.33
6.3.1.8 Cost Estimate			22	64	48		134	\$ 11,555.26
6.3.1.9 Coordination and Progress Meetings			14	12	8	8	42	\$ 3,717.48
Deliverables							348	\$ 42,388.91
* 30, 60, 90, 100% Submittals	16	24	42	48	24		154	\$ 17,199.33
* QC redlines at (30, 60, and 90 percent) design reviews	42	24		24	32		122	\$ 14,738.16
* Final signed and sealed construction plans	18	36					54	\$ 7,838.56
* Bid document package	6	12					18	\$ 2,612.85
							0	\$ -
HOURS SUB-TOTALS	82	120	253	392	353	14	1214	
CONTRACT RATE PER HOUR	\$185.91	\$124.78	\$120.59	\$107.14	\$42.62	\$50.34		
TOTAL LABOR COSTS	\$15,244.89	\$14,973.74	\$30,508.35	\$41,996.95	\$15,044.55	\$704.73	\$118,473.20	
% DISTRIBUTION OF STAFF HOURS	6.75%	9.88%	20.84%	32.29%	29.08%	1.15%		

SUBCONSULTANT: Villaverde, Inc., S5					
PROJECT: SL 375 Widen Lanes					
OTHER DIRECT EXPENSES					
Other Direct Expenses	UNITS		RATE		
Lodging/Hotel (Taxes/fees not included)	0	night	0.00		\$0.00
Meals (overnight stay required)	0	day	0.00		\$0.00
Rental Car (Tax/fees not included)	0	day	0.00		\$0.00
Mileage	0	mile	0.45		\$0.00
SUV or ATV Rental	0	day	0.00		\$0.00
Air Travel	0	each	660.00		\$0.00
Parking	0	day	0.00		\$0.00
Taxi/Cab fare	0	each	0.00		\$0.00
Standard Postage	0	letter	0.00		\$0.00
Overnight express-letter size	0	each	42.00		\$0.00
Overnight express-oversized box	0	each	0.00		\$0.00
Courier Services	0	-0.01	0.00		\$0.00
8½"X11" B/W Paper Copies	0	each	0.10		\$0.00
11"X17" B/W Paper Copies	0	each	0.15		\$0.00
8½"X11" Color Paper Copies	0	each	0.00		\$0.00
11"X17" Color Paper Copies	0	each	0.00		\$0.00
CADD Plotting	0	linear foot	0.00		\$0.00
Digital Ortho Plotting	0	linear foot	0.00		\$0.00
Law Enforcement/Uniform Officer	0	hour/officer	0.00		
Notebooks	0	each	0.00		\$0.00
Hazardous Materials Database Search	0	per search	0.00		\$0.00
Backhoe Rental	0	day	0.00		\$0.00
Boards for Public Meeting	0	each	0.00		\$0.00
Env. Field Supplies (lathes, stakes, flagging, spray paint, etc.)	0	day	0.00		\$0.00
Interpreter	0	hour	0.00		\$0.00
Court Reporter	0	hour	0.00		\$0.00
Newspaper Advertisement	0	each	0.00		\$0.00
Other Direct Expense Total					\$0.00

SUBCONSULTANT: Villaverde, Inc., S5		
PRIME PROVIDER NAME: Dannenbaum Engineering Company - El Paso, LLC		
PROJECT: SL 375 Widen Lanes		
LUMP SUM, UNIT COST AND/OR SPECIFIED RATE PAYMENT BASIS		
Lump Sum, Unit Cost and/or Specified Rate Labor/Staff Classification	Negotiated Hourly Base Rate	Contract Rate
Senior Project Manager	\$ 66.48	\$ 185.91
Senior Bridge Engineer	-	-
Senior Engineer	\$ 44.62	\$ 124.78
Project Engineer	\$ 43.12	\$ 120.59
Design Engineer	\$ 42.42	\$ 118.63
EIT	\$ 38.31	\$ 107.14
Senior Engineering Technician	\$ 35.00	\$ 97.88
Engineering Technician	\$ 28.65	\$ 80.12
Senior CADD Operator	\$ 17.32	\$ 48.44
CADD Operator	\$ 15.24	\$ 42.62
Admin / Clerical (Eng)	\$ 18.00	\$ 50.34
Survey Project Manager		\$ -
Registered Professional Land Surveyor		\$ -
Survey Technician		\$ -
Survey Technician - GPS		\$ -
2-man Survey Crew (Portal to Portal)		\$ -
3-man Survey Crew (Portal to Portal)		\$ -
4-man Survey Crew (Portal to Portal)		\$ -
Flagger		\$ -
Admin / Clerical (Surv)		\$ -
Audited Overhead Rate:	154.23%	
Negotiated Profit Rate:	10.00%	
<p>Contract Rates include labor, overhead, and profit. All rates are negotiated rates and are not subject to change or adjustment.</p> <p>Physical percent complete to be billed. Documentation of hours work not required.</p> <p>Any staffing or other direct expense classification included in the contract, but not in a work authorization, is not eligible for payment under that work authorization.</p>		

**GRV Integrated Engineering Solutions, LLC, S6
PROJECT: SL 375 Widen Lanes**

Task Description	SENIOR PROJECT MANAGER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEERING TECHNICIAN	ADMIN / CLERICAL (ENG)	TOTAL LABOR HOURS	TOTAL LABOR COST
E. Plans, Specifications and Estimates (PS&E)						576	\$ 59,010.53
9. Traffic Control						576	\$ 59,010.53
9.1 TCP Coordination, Invoicing, Filing, and Project Management	20				10	30	\$ 4,518.23
9.1.1 Attend Safety Review Meetings	12	12				24	\$ 3,202.18
9.1.2 Coordinate with LP 375 Frontage Rd TCP	8	20	20			48	\$ 4,536.43
9.2.1 Line Diagrams	2		8	16		26	\$ 1,783.03
9.2.2 Detour Plans	8	16	40			64	\$ 5,676.60
9.2.3 Traffic Control Plans	24	40	120			184	\$ 16,399.06
9.2.4 General Note Guidelines for Contractor	8	4			4	16	\$ 2,122.66
9.4.2 60% Submittal	16	16			4	36	\$ 4,572.81
9.4.3 90% Submittal	8	20	20			48	\$ 4,536.43
9.4.4 100% Submittal	4	16	16			36	\$ 3,177.92
9.4.5 QA/QC	16					16	\$ 3,008.11
9.4.6 Plans Estimate related to TCP	8	8	8	16		40	\$ 3,541.81
9.4.6 Specification List	4				4	8	\$ 1,055.26
Direct Costs (copies, plotting, printing, mileage)						0	\$ 880.00
HOURS SUB-TOTALS	138	152	232	32	22	576	
CONTRACT RATE PER HOUR	\$188.01	\$78.84	\$72.78	\$51.55	\$75.81		
TOTAL LABOR COSTS	\$25,944.96	\$11,983.93	\$16,884.24	\$1,649.61	\$1,667.80	\$59,010.53	
% DISTRIBUTION OF STAFF HOURS	23.96%	26.39%	40.28%	5.56%	3.82%		

<p align="center">SUBCONSULTANT: GRV integrated Engineering Solutiions, LLC, S6 PROJECT: SL 375 Widen Lanes</p> <p align="center">OTHER DIRECT EXPENSES</p>					
Other Direct Expenses	UNITS		RATE		
Lodging/Hotel (Taxes/fees not included)	0	night	0.00		\$0.00
Meals (overnight stay required)	0	day	0.00		\$0.00
Rental Car (Tax/fees not included)	0	day	0.00		\$0.00
Mileage	0	mile	0.55		\$0.00
SUV or ATV Rental	0	day	0.00		\$0.00
Air Travel	0	each	0.00		\$0.00
Parking	0	day	0.00		\$0.00
Taxi/Cab fare	0	each	0.00		\$0.00
Standard Postage	0	letter	0.50		\$0.00
Overnight express-letter size	0	each	35.00		\$0.00
Overnight express-oversized box	0	each	75.00		\$0.00
Courier Services	0	74.99	0.00		\$0.00
8½"X11" B/W Paper Copies	300	each	0.20		\$60.00
11"X17" B/W Paper Copies	500	each	0.40		\$200.00
8½"X11" Color Paper Copies	100	each	1.00		\$100.00
11"X17" Color Paper Copies	100	each	2.00		\$200.00
CADD Plotting	80	linear foot	4.00		\$320.00
Digital Ortho Plotting	0	linear foot	0.00		\$0.00
Law Enforcement/Uniform Officer	0	hour/officer	0.00		
Notebooks	0	each	25.00		\$0.00
Hazardous Materials Database Search	0	per search	0.00		\$0.00
Backhoe Rental	0	day	0.00		\$0.00
Boards for Public Meeting	0	each	100.00		\$0.00
Env. Field Supplies (lathes, stakes, flagging, spray paint, etc.)	0	day	0.00		\$0.00
Interpreter	0	hour	0.00		\$0.00
Court Reporter	0	hour	0.00		\$0.00
Newspaper Advertisement	0	each	0.00		\$0.00
Other Direct Expense Total					\$880.00

SUBCONSULTANT: GRV Integrated Engineering Solutions, LLC		
PRIME PROVIDER NAME: Dannenbaum Engineering Company - El Paso, LLC		
PROJECT: SL 375 Widen Lanes		
LUMP SUM, UNIT COST AND/OR SPECIFIED RATE PAYMENT BASIS		
Lump Sum, Unit Cost and/or Specified Rate Labor/Staff Classification	Negotiated Hourly Base Rate	Contract Rate
Senior Project Manager	\$ 62.00	\$ 188.01
Senior Bridge Engineer	\$ -	\$ -
Senior Engineer	\$ 41.48	\$ 125.78
Project Engineer	\$ 26.00	\$ 78.84
Design Engineer	\$ 24.00	\$ 72.78
EIT	\$ 20.00	\$ 60.65
Senior Engineering Technician	\$ 25.00	\$ 75.81
Engineering Technician	\$ 17.00	\$ 51.55
Senior CADD Operator	\$ 24.00	\$ 72.78
CADD Operator	\$ 15.00	\$ 45.49
Admin / Clerical (Eng)	\$ 25.00	\$ 75.81
Survey Project Manager	\$ 30.00	\$ 90.97
Registered Professional Land Surveyor	\$ -	\$ -
Survey Technician	\$ 17.00	\$ 51.55
Survey Technician - GPS	\$ -	\$ -
2-man Survey Crew (Portal to Portal)	\$ -	\$ -
3-man Survey Crew (Portal to Portal)	\$ -	\$ -
4-man Survey Crew (Portal to Portal)	\$ -	\$ -
Flagger	\$ -	\$ -
Admin / Clerical (Surv)	\$ -	\$ -
Audited Overhead Rate:	175.67%	
Negotiated Profit Rate:	10.00%	
<p>Contract Rates include labor, overhead, and profit. All rates are negotiated rates and are not subject to change or adjustment. Physical percent complete to be billed. Documentation of hours work not required. Any staffing or other direct expense classification included in the contract, but not in a work authorization, is not eligible for payment under that work authorization.</p>		